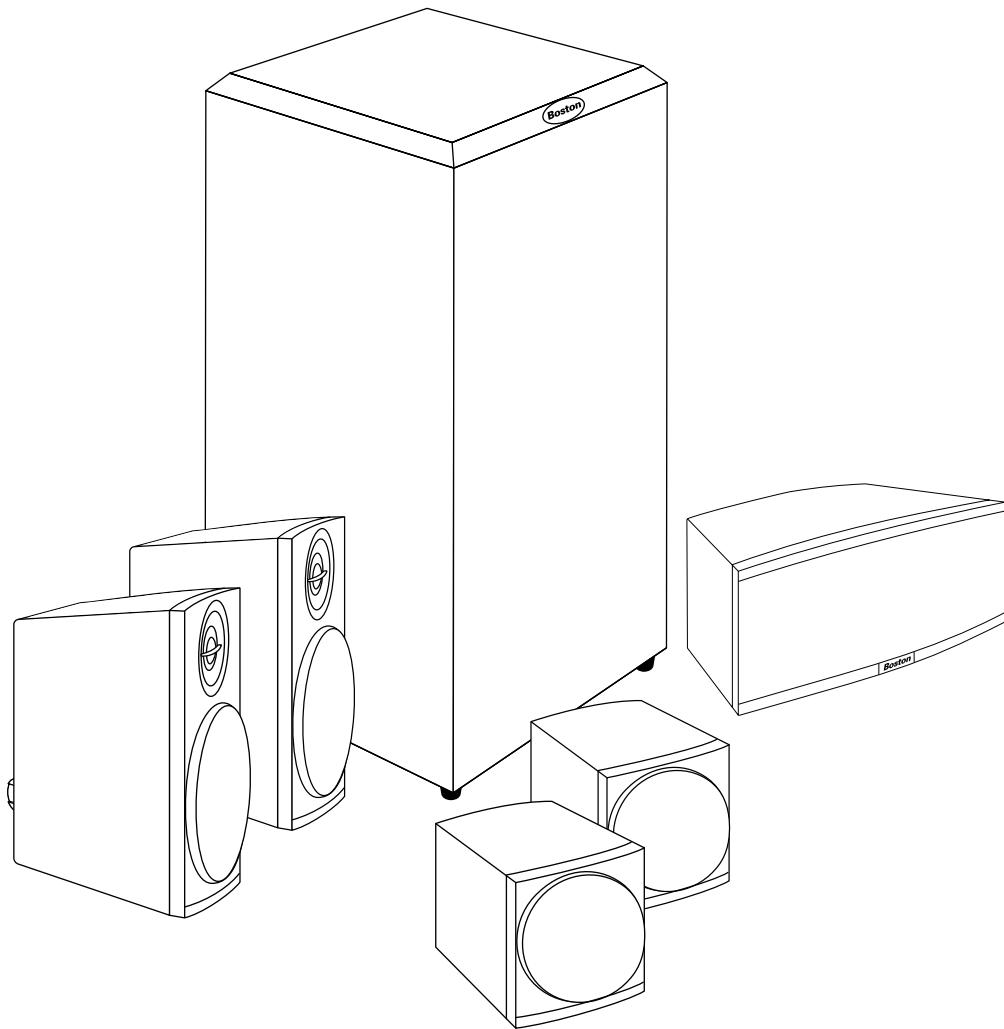


System8000

**Micro Reference Series
6-Piece Speaker System with
PowerVent® Powered Subwoofer**



Boston
Boston Acoustics

Safety Instructions



WARNING: To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

1. Read Instructions: All the safety and operating instructions should be read before the product is operated.

2. Retain Instructions: The safety and operating instructions should be retained for future reference.

3. Heed Warnings: All warnings on the product and in the operating instructions should be adhered to.

4. Follow Instructions: All operating and other instructions should be followed.

5. Water and Moisture: The product should not be used near water—for example, a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

6. Carts and Stands: The product should be used only with a cart or stand that is recommended by the manufacturer. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



7. Wall- or Ceiling-Mounting: The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

8. Ventilation: The product should be situated so that its location or position does not interfere with its proper functioning. For example, the product should not be situated on a bed, sofa, rug, or similar surface that may obstruct the heat sink surfaces; or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air near the heat sink surfaces.

9. Heat: The product should be situated away from heat sources, such as radiators, stoves, or other products that produce heat.

10. Power Sources: The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.

11. Grounding or Polarization: This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

12. Power Cord Protection: Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords and plugs, convenience receptacles, and the point where they exit from the product.

13. Cleaning: The product should only be cleaned as recommended by the manufacturer.

14. Nonuse Periods: The power cord should be unplugged from the outlet when left unused for long periods of time.

15. Object and Liquid Entry: Care should be taken so that objects do not fall into and liquids are not spilled into the inside of the product.

16. Damage Requiring Service: The product should be serviced if any of the following events occur:

A. The power supply cord or the plug has been damaged;

B. Objects have fallen or liquid has been spilled into the product;

C. The product has been exposed to rain;

D. The product does not appear to operate normally or exhibits a marked change in performance; or

E. The product has been dropped or the enclosure damaged.

17. Servicing: The user should not attempt to service the product beyond what is described in the operating instructions. For all other servicing, consult your dealer or contact Boston Acoustics.

Specifications

| | |
|--|--|
| System Frequency Response ($\pm 3\text{dB}$) | 44–20,000Hz |
| Recommended Amplifier Power | 15–125 watts |
| Nominal Impedance | 8 ohms |
| Sensitivity (1 watt [2.83v] at 1m) | 89dB |
| Subwoofer Amplifier Power | 65 watts continuous 4Ω ; < 0.2% THD @ 50 watts, 4Ω , 30–200Hz |
| Bass Unit (Micro80pv subwoofer) | 7" (180mm) DCD copolymer with butyl rubber surround |
| Midrange (Micro80x and Micro80c) | 3½" (89mm) copolymer with butyl rubber surround |
| Tweeter (Micro80x and Micro80c) | ¾" (19mm) dome |
| Full-Range Driver (Micro80e) | 3½" (89mm) treated fiber |
| Crossover Frequency (Micro80x and Micro80c) | 3500Hz left & right; 4000Hz center |
| Dimensions (HxWxD) | Sub: 19⅞ x 10 x 10" (505 x 250 x 250mm) Sats: 6⅜ x 4⅓ x 5⅓" (175 x 108 x 146mm) Center: 4⅔ x 8 x 5⅛" (111 x 200 x 129mm) Effects: 4⅓ x 4⅓ x 4⅓" (110 x 105 x 121mm) |
| Weight | Subwoofer: 25 lbs (12kg); Satellites: 4 lbs ea. (2kg); Center: 4 lbs (2kg); Effects: 2lbs (1kg) |
| Finish | Subwoofer, Satellites, and Effects: Black or White; Center: Black |

Description

The Boston Acoustics System8000 home theater system delivers powerful performance for movies and music from small speakers that virtually disappear in your listening room. A potent 65-watt PowerVent® subwoofer produces exciting bass and special effects. The two Micro80x left/right satellites and Micro80c center channel speaker use the same drivers, creating a perfect sonic match across the front stage. Each speaker houses a Boston-built, high-power, 3½" (89mm) midrange driver and our ¾" (19mm) wide-dispersion dome tweeter to provide articulate dialog and lifelike imaging. Completing the system are two compact Micro80e rear effects speakers, for realistic, three-dimensional cinema sound. The front satellites and rear effects speakers include wall-mount brackets for complete placement flexibility.

The key to System8000's powerful performance is the subwoofer's high-current amplifier and 7" (180mm) DCD™ (Deep Channel Design) bass unit in a two-chamber bandpass enclosure. Built in Boston's state-of-the-art production facility, this long-throw driver was optimized using Finite Element Analysis computer modeling, giving it tremendous excursion for exceptionally powerful bass. The subwoofer amplifier features active equalization, extending the system's bass response down to 45Hz. The down-firing ports further strengthen the deep bass response by coupling the subwoofer's output to the floor, and are smoothly flared to eliminate audible turbulence.

The Micro80x satellites and Micro80c center channel are two-way speakers for wide-range response and a seamless blend with the subwoofer. They feature MagnaGuard® magnetic shielding to prevent television picture distortion.

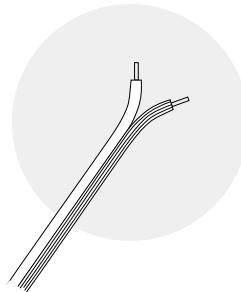
For user convenience, the subwoofer features auto turn on/turn off circuitry that turns the subwoofer amplifier on automatically when a signal is sensed, and turns it off 15 minutes after the last signal has been received.

How to Wire Your Speakers

You need to wire your speakers correctly to obtain the best sound quality and the proper image. Wiring should just take a few minutes, but it's important to do it carefully, since incorrect wiring (such as reversed connections) can result in a poor soundstage or poor bass.

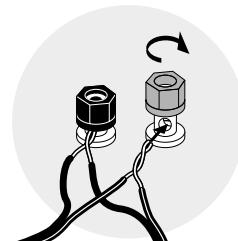
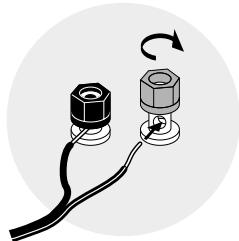
We recommend using 18-gauge or larger speaker wire for runs up to 25 feet (8m), and thicker 16-gauge or larger for longer runs. Strip $\frac{1}{2}$ " (12mm) of insulation off the ends of each speaker cable to expose the two conductors and tightly twist the wire strands. Maintain consistency of the + (red) and - (black) connections by using the markings on the wire.

IMPORTANT: Typically, one side of the wire is smooth. Connect this side to the - (black) connection. The other side has a rib or stripe. Connect this to the + (red) connection.



Micro80x Satellites and Micro80c Center Channel

Using the five-way binding posts: The binding posts permit easy connection to banana plugs, pins, spade lugs, and bare wire. The metal surfaces are plated with 24K gold to prevent corrosion.

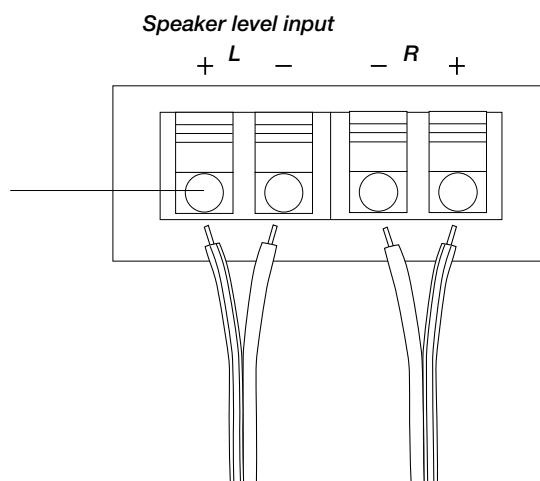


Insert the wire in the hole and tighten.

To connect two wires to one terminal, first twist them together. Then insert the wire in the hole and tighten.

Micro80pv Subwoofer and Micro80e Effects Speaker

Push down the buttons and insert the wire where shown. Be sure to connect + to + (red) and - to - (black).



Connecting the System8000

Speaker-Level Connections

The simplest way to wire the Micro80p is via speaker connections. Wired in this way, the subwoofer (Micro80pv) does not present any additional load to your amplifier. There are three ways to wire the subwoofer to your speaker connections; each way produces the same result. You may want to use long wires to the subwoofer at first, so you may experiment with placement.

As a general rule, it is best to keep the total length of wire between the amplifier and Micro80x satellites as short as possible. The subwoofer, on the other hand, is not sensitive to wire length.

Be sure to connect + to + (positive) and – to – (negative) by using the markings on the wire.

WARNING: To reduce the risk of electrical shock, always switch off the system and the amplifier and/or receiver when making connections to the system and speakers.

Dolby® Pro Logic® Systems

The subwoofer and front satellites should be wired to connections for the front left and right speakers. Even though the System8000 has a separate subwoofer, when you use speaker-level connections, the two Micro80x satellites and Micro80pv subwoofer look to your receiver like a pair of conventional large speakers. Set the center channel mode on your receiver to "NORMAL." This will send all the bass to the subwoofer.

Dolby® Digital Systems

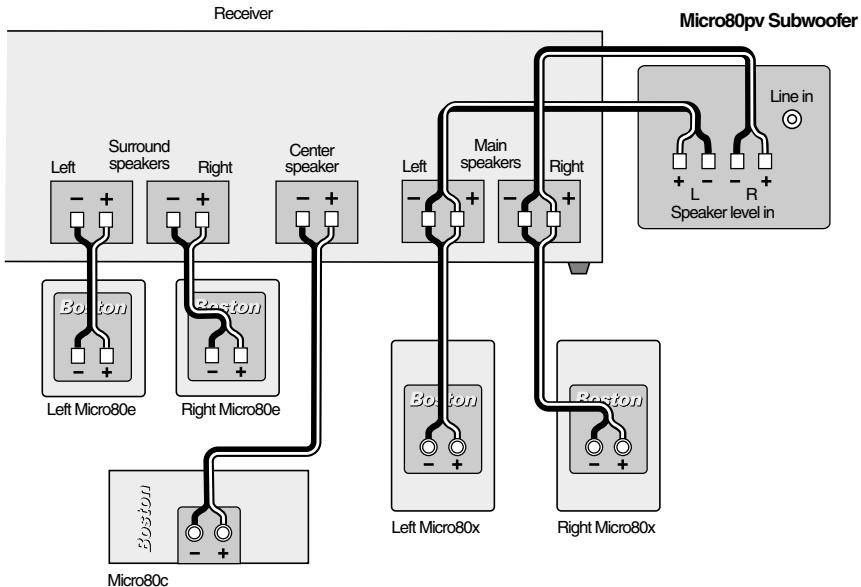
The subwoofer and front satellites should be wired to connections for the front left and right speakers. Even though the System8000 has a separate subwoofer, when you use speaker-level connections, the two Micro80x satellites and Micro80pv subwoofer look to your receiver like a pair of conventional large speakers. On your receiver's setup menu, set the front left/right speaker mode to "LARGE." Choose "SUBWOOFER-NO." Set the center channel and surround speaker modes to "SMALL." This sends all the bass to the front left and right channels, where it will be reproduced by the System8000's subwoofer.

Connecting the System8000 (cont.)

Speaker-Level Connections (cont.)

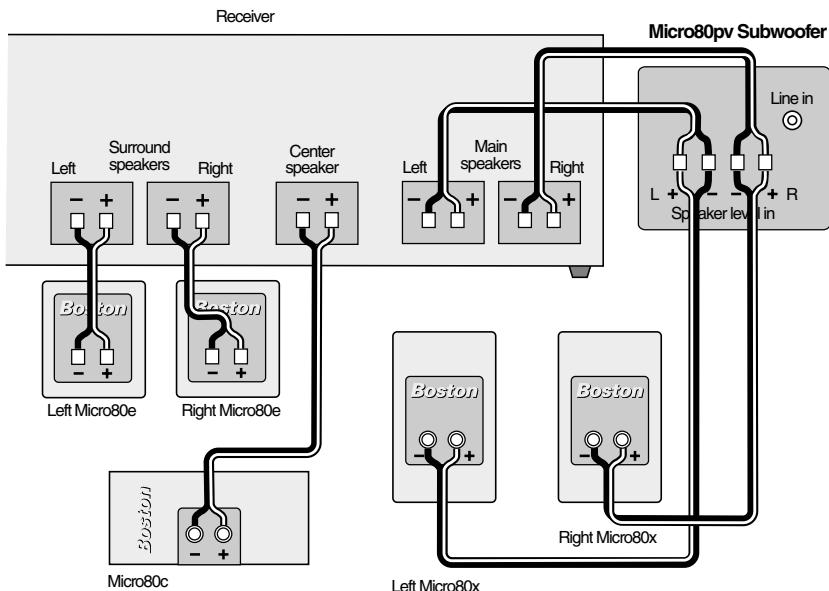
Option 1: Connect the speaker terminals on the Micro80pv to the left and right speaker outputs of your receiver. Use the same speaker outputs that drive the Micro80x satellites. Do not connect the Micro80pv to any other speaker outputs that may be on your receiver.

IMPORTANT: When making connections, be sure to connect + to + (positive) and – to – (negative).



Alternative options: In some cases, you may find it easier to use one of the following alternative wiring plans. The resulting sound will be the same.

Option 2: Connect the speaker terminals on the Micro80pv to the left and right main (or front) speaker outputs of your receiver and to the Micro80x satellites.

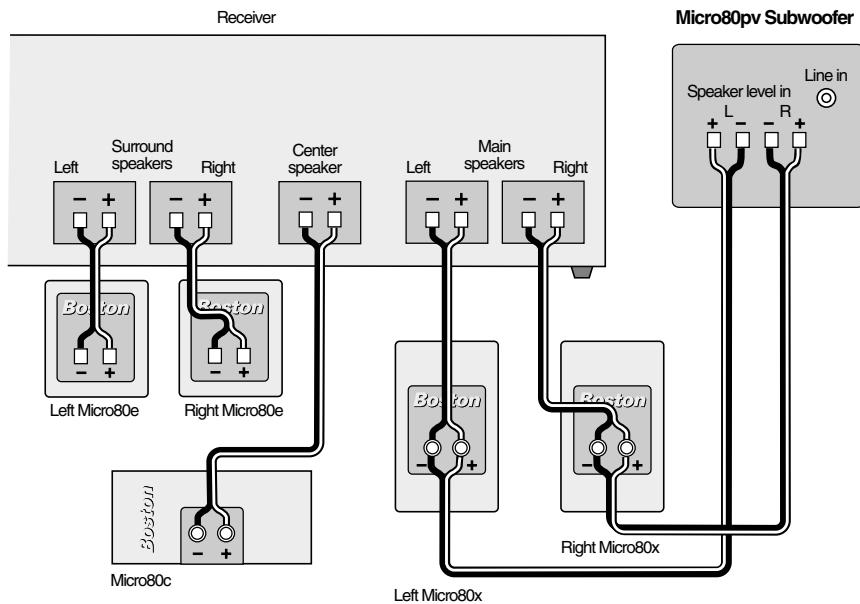


Connecting the System8000 (cont.)

Speaker-Level Connections (cont.)

Alternative options (cont.): In some cases, you may find it easier to use one of the following alternative wiring plans. The resulting sound will be the same.

Option 3: Connect the speaker terminals on the Micro80pv to the terminals on the Micro80x satellites.



Testing the Connections

A simple listening test will tell you if your Micro80x satellites are connected properly. Place the satellites face to face, with about an inch (25mm) between them. While listening to music, reverse the connections at one speaker only. You'll hear a dramatic change in sound. The connection that yields the fuller and louder sound is the correct one.

After checking the satellites, you can perform this same test with the subwoofer by reversing the speaker wires at one of its two pairs of terminal connectors. If the bass output is reduced, then the original connections were correct.

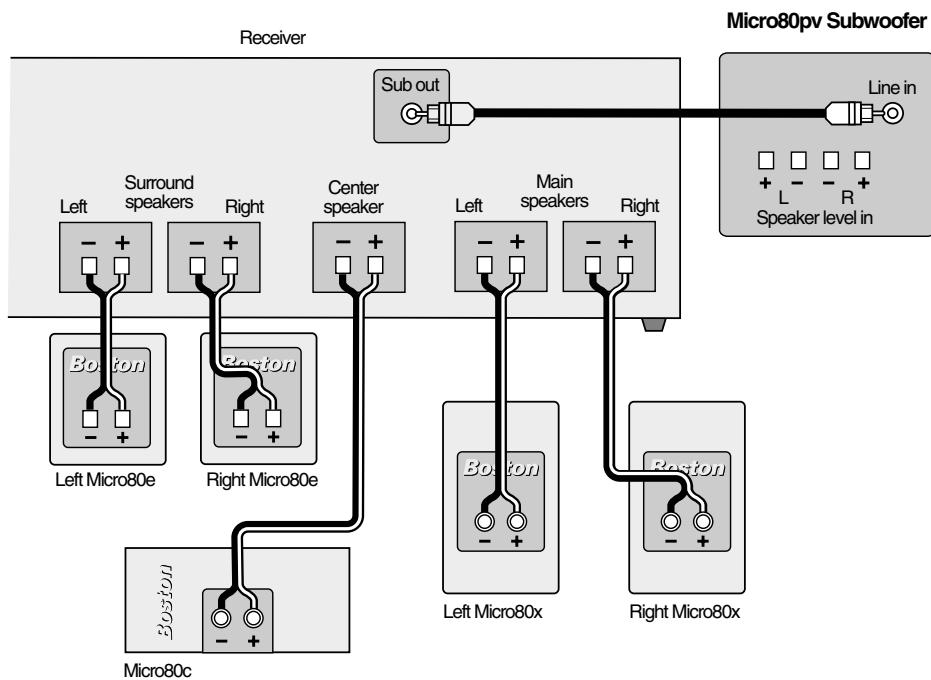
Dolby Pro Logic and Dolby Digital Line-Level System Connection

Using the line-level connection to the Micro80pv subwoofer generally results in a cleaner system sound, since the receiver no longer has to reproduce the difficult low bass information that can push it into audible distortion (also known as clipping).

Dolby Pro Logic Systems

Use an RCA cable (not included) to connect your receiver's *Sub out* jack to the *Line in* jack on the Micro80pv, as shown below.

Set the center and surround channel modes to "NORMAL." This will send all the bass to the subwoofer.



Dolby Pro Logic and Dolby Digital Line-Level System Connection (cont.)

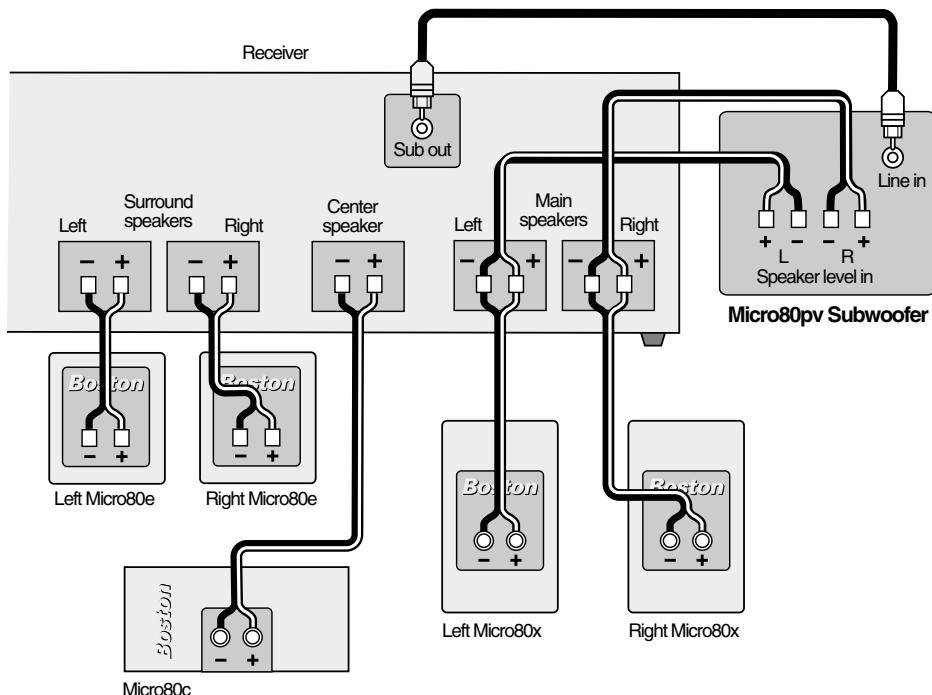
Dolby Digital Systems

If your receiver or processor gives you a choice of subwoofer low-pass crossover settings, select one around 120Hz. This will result in the smoothest overall system response, since the lower response limit of the Micro80x satellite and Micro80c center channel is 120Hz.

Select "SMALL" for the front left/right speakers, the center channel speaker, and the surround speakers on your receiver's set-up menu. Select "SUBWOOFER-YES" on your receiver's setup menu. Use the wiring diagram shown on page 8.

If your Dolby Digital receiver has a fixed (nonadjustable) subwoofer low-pass crossover setting below 100Hz, you may find the system sounds better when wired with both speaker wire and line-level connections to the subwoofer, as shown below.

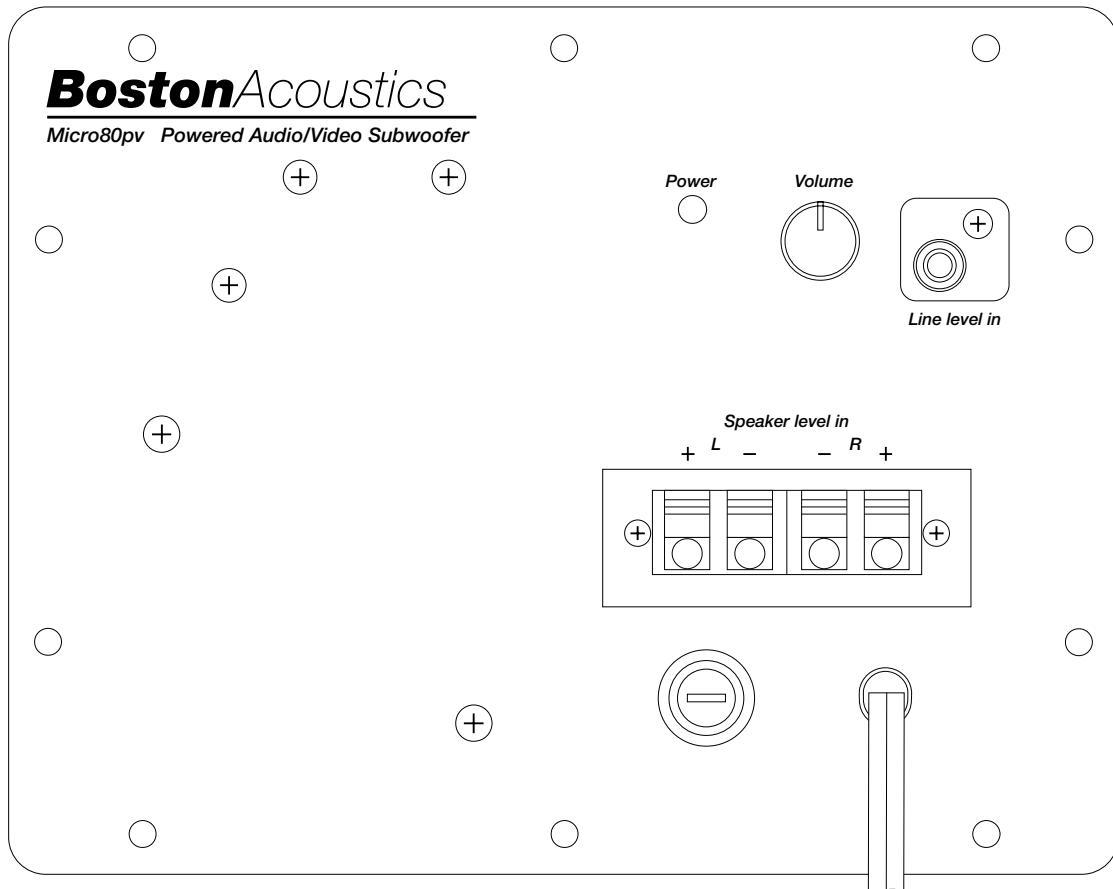
Select "SMALL" for the front left/right speakers, the center channel speaker, and the surround speakers on your receiver's setup menu. Select "SUBWOOFER-YES" on your receiver's setup menu.



Micro80pv Subwoofer Controls

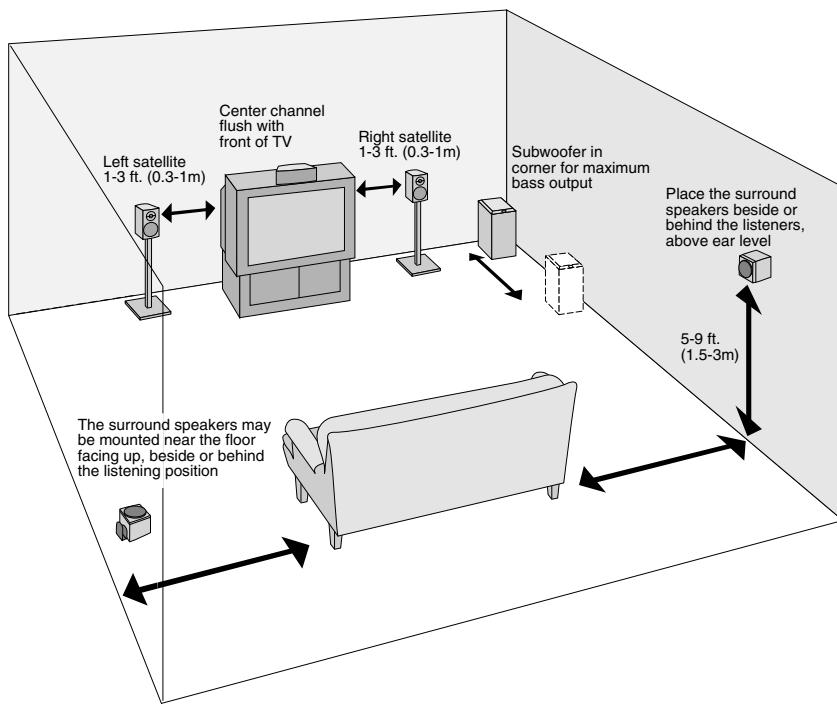
Volume: Adjusts the sound level of the subwoofer. If you are using the speaker-level connections, begin with a setting at about the 10:00 o'clock position. When using the line-level connections, begin with a setting around 11:00 o'clock. Your actual setting may vary due to personal taste, program material, and subwoofer placement.

NOTE: Power is always supplied to the subwoofer electronics unless it is unplugged. The auto-on circuitry only activates or deactivates the power amplifier.



How to Place Your Speakers

Room placement is one of the most important factors for sound quality. Taking a few minutes to try different placements ensures that your speakers will sound best in your listening environment.



Micro80x Satellite Placement

We recommend that you center the two satellites in front of your favorite listening position, about 6 to 12 feet (2-4m) apart, and near ear level when you are in a seated position.

The satellites may be hung from a wall with the included keyhole bracket or the optional MRB pedestal stand/wall-mount bracket. (See page 15 for more details.) A threaded insert on the back of each satellite allows for use with many brands of satellite floor stands. Check with your dealer for more details.

Micro80e Effects Speaker Placement

The Micro80e effects speaker provides the ambient soundfield essential for realistic cinema sound. To achieve the best surround sound, place the Micro80e so its sound is diffused around the listening area. They may be placed above ear level facing out or below ear level, facing up. No matter how the speakers are placed, avoid aiming them directly at the listeners.

Micro80c Center Channel Placement

This low-profile, dedicated speaker is designed to rest unobtrusively on top of your television. The speaker's MagnaGuard® magnetic shielding allows this placement without TV interference. The front of the speaker should be flush with the front of the television. The speaker includes self-adhesive rubber feet to protect the TV's finish and to prevent vibration.

Wall-Mounting the Micro80e Effects Speakers

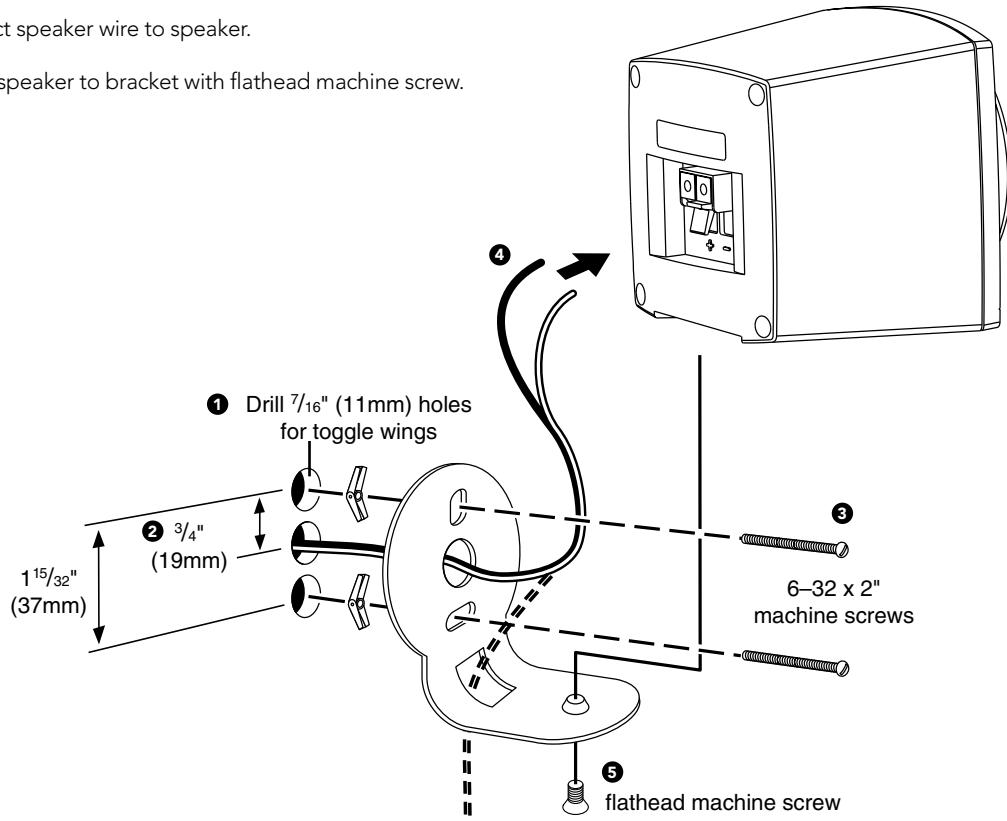
1 Drill two $\frac{7}{16}$ " (11mm) holes for toggle wings. If mounting on a surface other than drywall, consult a knowledgeable installer about the proper hardware to use on your wall.

2 If you are running speaker wire behind the wall, drill a $\frac{1}{2}$ " (12mm) hole $\frac{3}{4}$ " (19mm) below the top toggle wing hole.

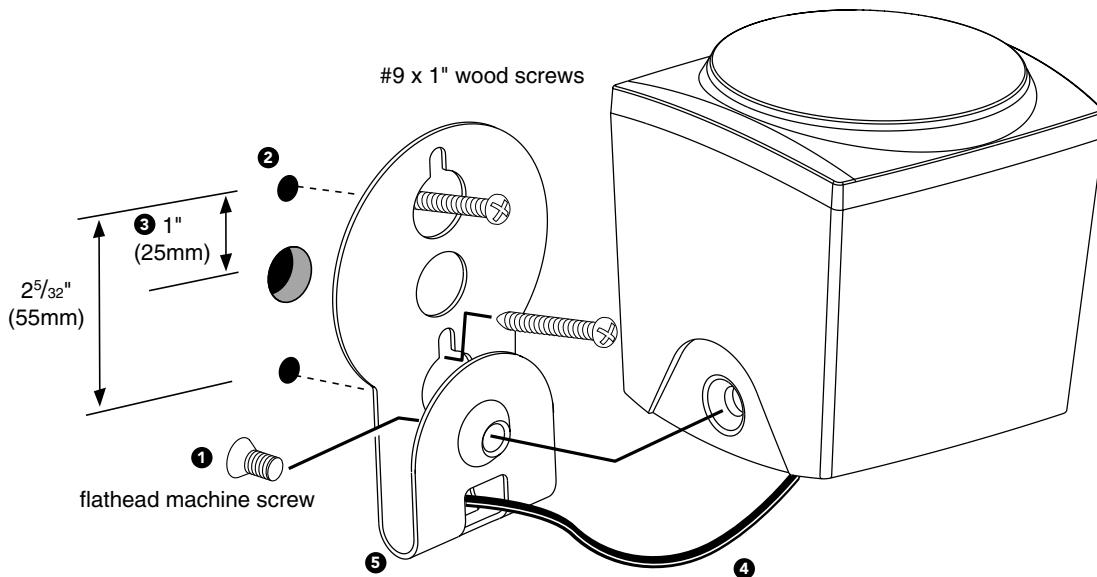
3 Attach bracket to wall with machine screws and toggle wings, as shown below.

4 Connect speaker wire to speaker.

5 Attach speaker to bracket with flathead machine screw.



Wall-Mounting the Micro80e Effects Speakers (cont.)



- ➊ Attach bracket to speaker with flathead machine screw.
- ➋ Drill two $\frac{1}{8}$ " (3mm) pilot holes for wood screws, then mount screws. Leave about $\frac{1}{8}$ " (3mm) of screw thread exposed. If mounting on drywall, use plastic anchors (not included). Consult a knowledgeable installer about the proper hardware to use on your wall.
- ➌ If you are running speaker wire behind the wall, drill a $\frac{1}{2}$ " (12mm) hole 1" (25mm) below the top screw hole.
- ➍ Connect the speaker wire to the speaker.
- ➎ Slip the bracket/speaker assembly onto the screws.

Setting Up Your Home Theater System

Volume Levels: To obtain the best home theater effect, match the sound levels of each speaker. Home theater systems include a test signal that simplifies this level matching. Refer to the instructions provided with your surround-sound electronics.

Center Channel Mode: Generally, with all surround systems, including Dolby® Pro Logic® and Dolby® Digital, the center channel mode should be set to "NORMAL" or "SMALL." This setting diverts low bass to the subwoofer and results in the greatest total system bass output. The "PHANTOM" setting, which presumes you do not have a center channel speaker, should not be used.

Surround Channel Mode: If your electronics have a surround channel mode, it should also be set to "NORMAL" or "SMALL." This setting will divert any low bass in the surround channels to the subwoofer.

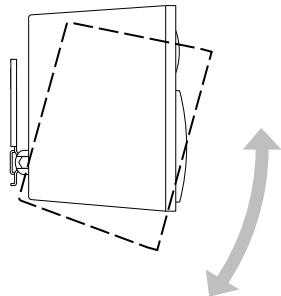
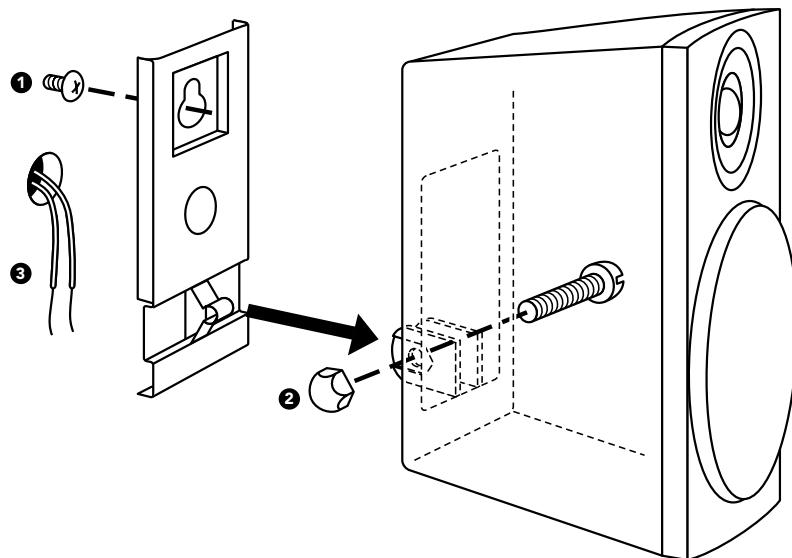
Wall-Mounting Your Micro80x Satellites

The Micro80x satellite may be wall-mounted using the included keyhole bracket:

- 1 Install a #8 or #10 mounting screw on the wall (not supplied—consult a knowledgeable installer regarding the proper hardware to use on your wall surface).

- 2 Attach the bracket to the back of the speaker with the machine screw and acorn nut as shown.

- 3 If you are running wires behind the wall, make a $\frac{3}{8}$ " (9.5mm) wire hole, $1\frac{3}{4}$ " (44mm) below the mounting screw for the wire.



The speaker may be angled for optimum coverage of the listening area.

An optional pedestal shelf stand/wall-mount bracket (Model MRB) is available for the Micro80x that provides greater positioning flexibility. For more information, contact your dealer or Boston Acoustics directly.

Troubleshooting

Subwoofer does not make sound

1. Check to ensure the subwoofer's AC power cord is properly plugged in. If the outlet being used is controlled by a switch, make sure the switch is on.
2. If the power cord is properly attached but the pilot light does not illuminate, the AC fuse may be blown. If necessary, replace the fuse with a same-type fuse or consult a service technician.

Listening Levels and Power Handling

The power recommendation for the speaker assumes the amplifier is not overdriven, which, over a long period, can damage even our rugged speakers. If you hear a harsh, gritty noise, turn down the volume control. Prolonged or repeated operation with a distorted signal from the amplifier can cause damage to the speakers, which is not covered by the warranty.

Limited Warranty

For five years from the date of purchase, Boston Acoustics will repair for the original owner any defect in materials or workmanship that occurs in the normal use of the Micro80x satellites, Micro80c center channel speaker, and Micro80e effects speakers, without charge for parts and labor.

For one year from the date of purchase, Boston Acoustics will repair for the original owner any defect in materials or workmanship that occurs in normal use of the Micro80pv powered subwoofer, without charge for parts and labor.

Your responsibilities are to use the system according to the instructions supplied, to provide safe and secure transportation to an authorized Boston Acoustics service representative, and to present proof of purchase in the form of your sales slip when requesting service.

Excluded from this warranty is damage that results from abuse, misuse, accidents, shipping, or repairs or modifications by anyone other than an authorized Boston Acoustics service representative.

This warranty is void if the serial number has been removed or defaced.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If Service Seems Necessary

First, contact the dealer from whom you purchased the System8000. If that is not possible, write to:

Boston Acoustics, Inc. 300 Jubilee Drive Peabody, MA 01960 U.S.A.

We will promptly advise you of what action to take. If it is necessary to return your speaker to the factory, please ship it prepaid. After it has been repaired, we will return it freight prepaid in the U.S. and Canada.

Boston
Boston Acoustics

300 Jubilee Drive
Peabody, MA 01960 U.S.A.
978.538.5000

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